



KUALITI ALAM LABORATORY SERVICES
LABORATORY ANALYTICAL REPORT

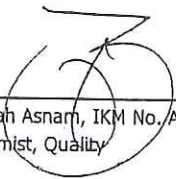
COMPANY	PERUSAHAAN THULAM SDN. BHD. (1175629-A) NO.68, JALAN MANTIN-NILAI 71700 PAJAM, NEGERI SEMBILAN FAX: 06-758 5960	
ADDRESS		
TELEPHONE. NO		
FACSIMILE. NO		
CONTACT PERSON		
CONSIGNMENT NOTE NO.		
NAME OF WASTE/SAMPLE		LUBE OIL INDUSTRY
WASTE CATEGORY/CODE		-
TYPE OF SAMPLE		OIL
SAMPLE ID		-
DATE RECEIVED		26/9/2014
REPORT DATE		23/10/2014
LAB SAMPLE NO		D140412
PO NO		-
REPORT NO		18,637.0
PROJECT NAME	-	

ANALYSIS REPORT

TEST DESCRIPTION	METHOD	UNIT	STATUS [^]	Allowable Level	RESULTS OF ANALYSIS
Total Chlorine	In House Test Method (adapted from ASTM E 776)	mg/kg	A	1000 ppm maximum	143
Flash Point	USEPA SW 846 1010	°C	A	37.7 °C or Higher	>200
Arsenic	ASTM D1585	ppm	S	5 ppm maximum	<1
Cadmium	ASTM D1585	ppm	S	2 ppm maximum	<1
Chromium	ASTM D1585	ppm	S	10 ppm maximum	<1
Lead	ASTM D1585	ppm	S	100 ppm maximum	<1

REMARKS:

- 1) Allowable Levels is based on Table 2 in Guideline on Standard and Specification of Recovered Waste Oil in Malaysia
- 2) ASTM: American Standard Test Method
- 3) USEPA: United States Environmental Protection Agency

 23/10/14

Nor Zuraihan Asari, IKM No. A/3242/6052/11
Senior Chemist, Quality

[^]Status: A - SMM accredited, NA - Non-SMM accredited, S- Sub-Contracted (SMM Accredited Laboratory)

- Disclaimer:
1. Results produced relates only to the samples submitted to the laboratory.
 2. This report shall not be produced in any form without the written approval of Environmental Management Services, Kualiti Alam Sdn Bhd.
 3. Interpretation/opinion on the results is not SMM accredited.

NonDisclaimer : 1. Standards Malaysia is one of the signatories to the APLAC Mutual Recognition Arrangement (APLAC MRA) for the Mutual Recognition of test reports.



KUALITI ALAM LABORATORY SERVICES

LABORATORY ANALYTICAL REPORT

COMPANY ADDRESS TELEPHONE NO FACSIMILE NO CONTACT PERSON CONSIGNMENT NOTE NO. NAME OF WASTE/SAMPLE WASTE CATEGORY/CODE TYPE OF SAMPLE SAMPLE ID DATE RECEIVED REPORT DATE LAB SAMPLE NO PO NO REPORT NO PROJECT NAME	<p>PERUSAHAAN THULAM SDN. BHD. (1175629-A) NO.68, JALAN MANTIN-NILAI 71700 PAJAM, NEGERI SEMBILAN FAX: 06-758 5960</p> <p>LUBE OIL INDUSTRY</p> <p>OIL</p> <p>26/9/2014</p> <p>23/10/2014</p> <p>D140412</p> <p>-</p> <p>18,637.0</p>
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ANALYSIS REPORT

TEST DESCRIPTION	METHOD	UNIT	STATUS [^]	Allowable Level	RESULTS OF ANALYSIS
Polyaromatic Hydrocarbons					
Benzo(a)pyrene	EPA SW-846 Method 8270C	ppm	S	10mg/1kg oil (10ppm)	<5
Dibenz(a,h)anthracene	EPA SW-846 Method 8270C	ppm	S	10mg/1kg oil (10ppm)	<5
Benz(a)anthracene	EPA SW-846 Method 8270C	ppm	S	100mg/1kg oil (100ppm)	<5
Benzo(b)fluoranthene	EPA SW-846 Method 8270C	ppm	S	100mg/1kg oil (100ppm)	<5
Benzo(k)fluoranthene	EPA SW-846 Method 8270C	ppm	S	100mg/1kg oil (100ppm)	<5
Chrysene	EPA SW-846 Method 8270C	ppm	S	100mg/1kg oil (100ppm)	<5
Indeno(1,2,3-cd)pyrene	EPA SW-846 Method 8270C	ppm	S	100mg/1kg oil (100ppm)	<5

REMARKS:

EPA: Environmental Protection Agency

23/10/14

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