

OIL ANALYSIS REPORT

OKLAHOMA/102/EG - TRUCK-OFF-HWY-HEAVY HAUL 69.97L [OKLAHOMA^102^EG - TRUCK-OFF-HWY-HEAVY HAUL] MOBIL MOBILTRANS AST 30 (--- GAL)



Sample Rating Trend

ISO

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Component

Hydraulic System

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0874023	WC0712236	WC0670395
Sample Date		Client Info		04 Jan 2024	12 May 2023	03 Mar 2022
Machine Age	hrs	Client Info		8619	24756	7510
Oil Age	hrs	Client Info		1659	6960	1050
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	6	8
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	2	3
Lead	ppm	ASTM D5185m	>10	2	0	1
Copper	ppm	ASTM D5185m	>75	9	<1	2
Tin	ppm	ASTM D5185m	>10	1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		61	29	31
Barium	ppm	ASTM D5185m		0	0	0
		A OTH A DEVOE		26	~1	~1
Molybdenum	ppm	ASTM D5185m		20		
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m		<1	<1	<1
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		<1 307	<1 21	<1 17
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 307 1982	<1 21 3013	<1 17 3262
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 307 1982 862	<1 21 3013 988	<1 17 3262 1098
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 307 1982 862 1010	<1 21 3013 988 1240	<1 17 3262 1098 1348
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 307 1982 862 1010 3337	<1 21 3013 988 1240 5957	<1 17 3262 1098 1348 4982
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<pre> </pre> <pre> <pre> </pre> </pre> <pre> </pre>	<1 21 3013 988 1240 5957 history1	<1 17 3262 1098 1348 4982 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >20	<1 307 1982 862 1010 3337 current 5	<1 21 3013 988 1240 5957 history1 10	<1 17 3262 1098 1348 4982 history2 11
Molybdenum Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >20	<pre> 20 <1 307 1982 862 1010 3337 current 5 2 </pre>	<1 21 3013 988 1240 5957 history1 10 2	<1 17 3262 1098 1348 4982 history2 11 0
Molybdenum Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >20 >20	 <1 307 1982 862 1010 3337 current 5 2 <1 	<1 <1 21 3013 988 1240 5957 history1 10 2 <1 	<1 <1 17 3262 1098 1348 4982 history2 11 0 2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm i ppm i ppm i ppm i ppm i ppm i ppm i ppm i ppm i ppm i	ASTM D5185m ASTM D5185m	limit/base >20 >20 limit/base	<pre> 20 </pre> <1 307 1982 862 1010 3337 current 5 2 <1 current	<1 <1 21 3013 988 1240 5957 history1 10 2 <1 history1 	<1 17 3262 1098 1348 4982 history2 11 0 2 history2
Molybdenum Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Silicon Sodium Potassium FLUID CLEAN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >20 >20 >20 limit/base	 <1 307 1982 862 1010 3337 current 5 2 <1 current 18645 	<1 <1 21 3013 988 1240 5957 history1 10 2 <1 history1 729 	<1 <1 17 3262 1098 1348 4982 history2 11 0 2 history2 642
Molybdenum Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEAN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >20 >20 limit/base >2500	 <1 307 1982 862 1010 3337 current 5 2 <1 current 18645 ▲ 4848 	<1 <1 21 3013 988 1240 5957 history1 10 2 <1 history1 729 191 	<1 <1 17 3262 1098 1348 4982 history2 11 0 2 history2 642 157
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEAN Particles >4µm Particles >6µm Particles >14µm	ppm p	ASTM D5185m	limit/base >20 >20 limit/base >2500 >640	 <1 307 1982 862 1010 3337 current 5 2 <1 current 18645 4848 335 	<1 <1 21 3013 988 1240 5957 history1 10 2 <1 history1 729 191 13 	<1 <1 17 3262 1098 1348 4982 history2 11 0 2 history2 642 157 21
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Sulfur Sulfur Sodium Potassium FLUID CLEAN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASIM D5185m ASIM D7647 ASIM D7647 ASIM D7647 ASIM D7647	Iimit/base >20 >20 >20 Iimit/base >2500 >640 >160	 <1 307 1982 862 1010 3337 current 5 2 <1 current 18645 4848 335 66 	<1 <1 21 3013 988 1240 5957 history1 10 2 <1 history1 729 191 13 2 	<1 <1 17 3262 1098 1348 4982 history2 11 0 2 history2 642 157 21 5
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Sulfur Sulfur Sodium Potassium FLUID CLEAN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm p	ASIM D5185m ASIM D7647	Iimit/base >20 >20 >20 Iimit/base >2500 >640 >160 >40	 20 <1 307 1982 862 1010 3337 current 5 2 <1 current 18645 ▲ 4848 335 66 3 	<1 <1 21 3013 988 1240 5957 history1 10 2 <1 history1 729 191 13 2 0 	<1 <1 17 3262 1098 1348 4982 history2 11 0 2 history2 642 157 21 5 0

ISO 4406 (c) >--/18/16 **121/19/16**

Oil Cleanliness

17/14/12

17/15/11



OIL ANALYSIS REPORT







Jan9/18

Feb18/20

Jan 12/21 Aug3/21 Mar3/22

90

80 cSt (40°C)

70

60

50

40

30

Mav18/17 Apr22/1

an 22/1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.95	1.24	1.06
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	99.0	99.9	98.3
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom





Certificate L2367

Submitted By: RUSTY RILEY

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