

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

OKLAHOMA/102/EG - TRUCK-ON-HWY-HEAVY DUTY 05.59 [OKLAHOMA^102^EG - TRUCK-ON-HWY-HEAVY DUTY]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

MOBIL DELVAC 1300 SUPER15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0908848	,	WC0834009
	Sample Date		Client Info		10 Apr 2024	11 Mar 2024	13 Oct 2023
	Machine Age	mls	Client Info		9830	9627	162300
	Oil Age	mls	Client Info		200	200	200
	Filter Age	mls	Client Info		200	200	200
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	-	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>100	7	10	5
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	3	2
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	1	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	4
	Potassium	ppm	ASTM D5185m	>20	3	2	4
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	7.9	7.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	21.6	19.8
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	2
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Boron	ppm	ASTM D5185m	0	40	40	32
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	37	34	36
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m	0	391	383	381
	Calcium	ppm	ASTM D5185m		1315	1279	1321
	Phosphorus	ppm	ASTM D5185m		603	587	637
	Zinc	ppm	ASTM D5185m		727	717	741
	Sulfur	ppm	ASTM D5185m		2148	2117	2827
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	21.6	17.8
	Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.9	8.4	8.1
	Vice @ 100°C	~C+	ACTM D445	14	10.0	16.4	174

Visc @ 100°C cSt

ASTM D445 14

6.9

17.4

16.4

