

OIL ANALYSIS REPORT

Machine Id PETERBILT 107 ompone **Diesel Engine** MOBIL DELVAC 1300 SUPER15W40 (11 GAL)

RECOMMENDATION

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CONTAMINATION

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of compling has been poted. No	Sample Number		Client Info		TR06146079	TR06078518	TR06025346
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next	Sample Date		Client Info		02 Mar 2024	06 Jan 2024	17 Nov 2023
service interval to monitor.	Machine Age	mls	Client Info		722332	706186	694418
	Oil Age	mls	Client Info		11350	11768	13259
	Filter Age	mls	Client Info		11350	11768	13259
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	13	9	9
	Chromium	ppm	ASTM D5185m	>20	2	1	1
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling	Nickel	ppm	ASTM D5185m	>2	2	2	2
core). All other component wear rates are normal.	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
coroj. Al otrer component wear rates are normal.	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m	>25	4	4	3
	Lead	ppm	ASTM D5185m	>40	2	3	2
	Copper	ppm	ASTM D5185m	>330	🔺 416	▲ 559	A 271
	Tin	ppm	ASTM D5185m	>15	2	2	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	15	6	6
	Potassium	ppm	ASTM D5185m	>20	3	4	2
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	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.8	8.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	18.7	18.7
	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	4	2
	Boron	ppm	ASTM D5185m	0	101	92	90
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m	0	<1	0	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m	0	106	106	106
	Manganese	ppm	ASTM D5185m		1	2	0
	Magnesium	ppm	ASTM D5185m	0	585	604	615
	Calcium	ppm	ASTM D5185m		1258	1196	1338
	Phosphorus	ppm	ASTM D5185m		733	666	655
	Zinc	ppm	ASTM D5185m		778	774	857
	Sulfur	ppm	ASTM D5185m		3032	2752	3037
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	17.0	17.0
	Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.82	8.97	9.38

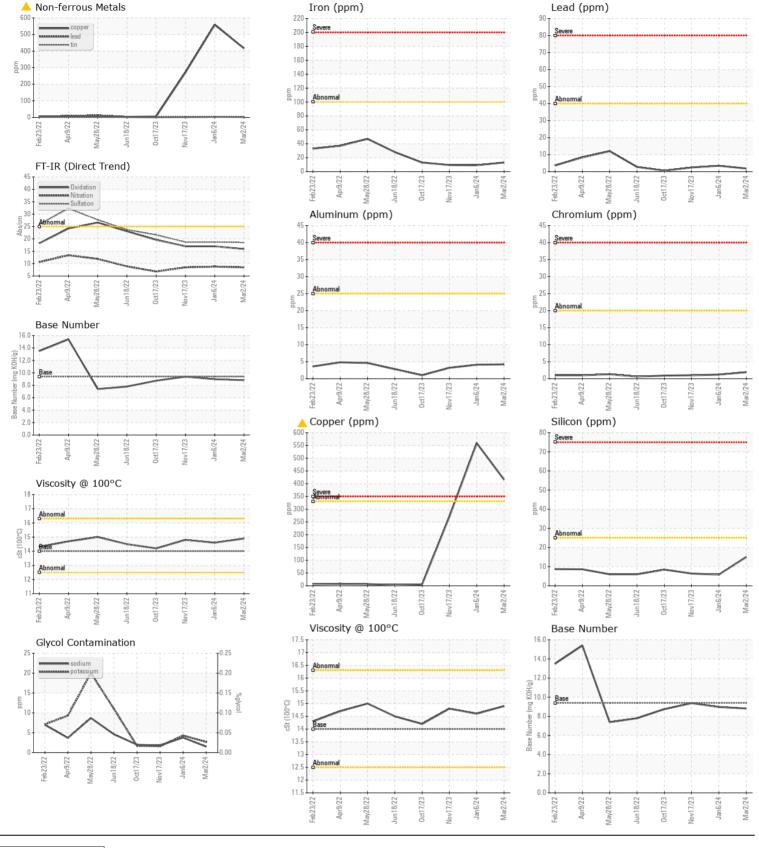
ASTM D445 14

Visc @ 100°C cSt

14.6

14.8

14.9



DARWIN UNRUH Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 19679 416TH AVE Sample No. : TR06146079 Received : 11 Apr 2024 : 06146079 CARPENTER, SD Lab Number Tested : 15 Apr 2024 : 15 Apr 2024 - Don Baldridge US 57322 Unique Number : 10976157 Diagnosed Test Package : MOB 2 (Additional Tests: Glycol) Contact: CALVIN KOEHN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: CALVIN KOEHN - DARCARSD Page 2 of 2