

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



FREIGHTLINER 2461

Component

Hydraulic System

PROGARD ARCTIC AW 15 (40 GAL)

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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

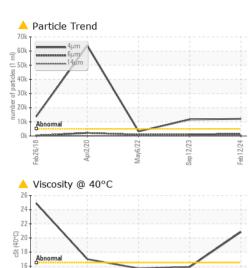
The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

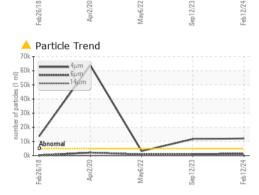
		Feb2018	Apr2020	May2022 Sep2023	Feb 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0004932	RW0004672	RW0003142
Sample Date		Client Info		12 Feb 2024	12 Sep 2023	06 May 2022
Machine Age	hrs	Client Info		9162	9140	8555
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	<1	1
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	1	<1	1
Copper	ppm	ASTM D5185m	>75	6	7	6
Tin	ppm	ASTM D5185m	>10	1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	0	6
Barium	ppm	ASTM D5185m		5	0	0
Molybdenum	ppm	ASTM D5185m		3	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		21	0	5
Calcium	ppm	ASTM D5185m		92	65	93
Phosphorus	ppm	ASTM D5185m		306	332	352
Zinc	ppm	ASTM D5185m		436	387	370
Sulfur	ppm	ASTM D5185m		930	858	1013
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	<1	<1
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	<u> </u>	3262
Particles >6µm		ASTM D7647	>1300	1277	1190	904
Particles >14μm		ASTM D7647	>160	22	44	99
Particles >21µm		ASTM D7647	>40	4	11	20
Particles >38µm		ASTM D7647	>10	0	0	2
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	<u></u> 21/17/13	19/17/14

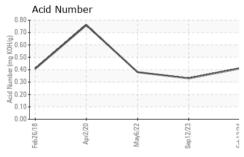


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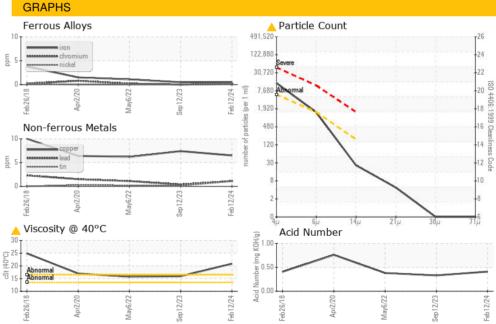
OIL ANALYSIS REPORT















Certificate L2367

Report Id: NEWMUS [WUSCAR] 06098355 (Generated: 02/29/2024 07:59:56) Rev: 1

Laboratory

Sample No. Lab Number **Unique Number** : 10896585

Test Package : MOB 2

: RW0004932 : 06098355

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 23 Feb 2024 Diagnosed

: 29 Feb 2024 - Jonathan Hester

: 29 Feb 2024

MUSKEGON, MI US 49442 Contact: ERIC KING ewking@newkirk-electric.com

NEWKIRK ELECTRIC

1875 ROBERTS ST.

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (231)206-6131 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (231)724-4090

Contact/Location: ERIC KING - NEWMUS