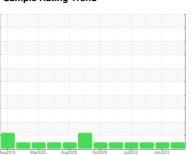


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



LIM4_U45 LIM4_U45_M45

Component

Lube System

ROYAL PURPLE SYNFILM GT 32 (20 GAL)

Recommendation

Resample at the next service interval to monitor. Sample submitted as hydraulic. Confirm component type.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

		Aug2019	Mar2020 Aug2020	0et2020 Jut2022	lan 2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0029455	RP0021262	RP0021452
Sample Date		Client Info		08 Jan 2024	16 Jan 2023	14 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	1
Lead	ppm	ASTM D5185m	>20	- <1	<1	0
Copper	ppm	ASTM D5185m	>20	3	3	5
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m	- = 0	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		68	59	100
Calcium	ppm	ASTM D5185m		<1	0	1
Phosphorus	ppm	ASTM D5185m		36	26	<1
Zinc	ppm	ASTM D5185m		0	0	0
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	<1	3
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.05	0.012	0.012	0.030
ppm Water	ppm	ASTM D6304	>500	127	123.9	304.9
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2256		
Particles >6µm		ASTM D7647	>1300	761		
Particles >14μm		ASTM D7647	>160	88		
Particles >21µm		ASTM D7647	>40	26		
Particles >38µm		ASTM D7647	>10	2		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/17/14		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

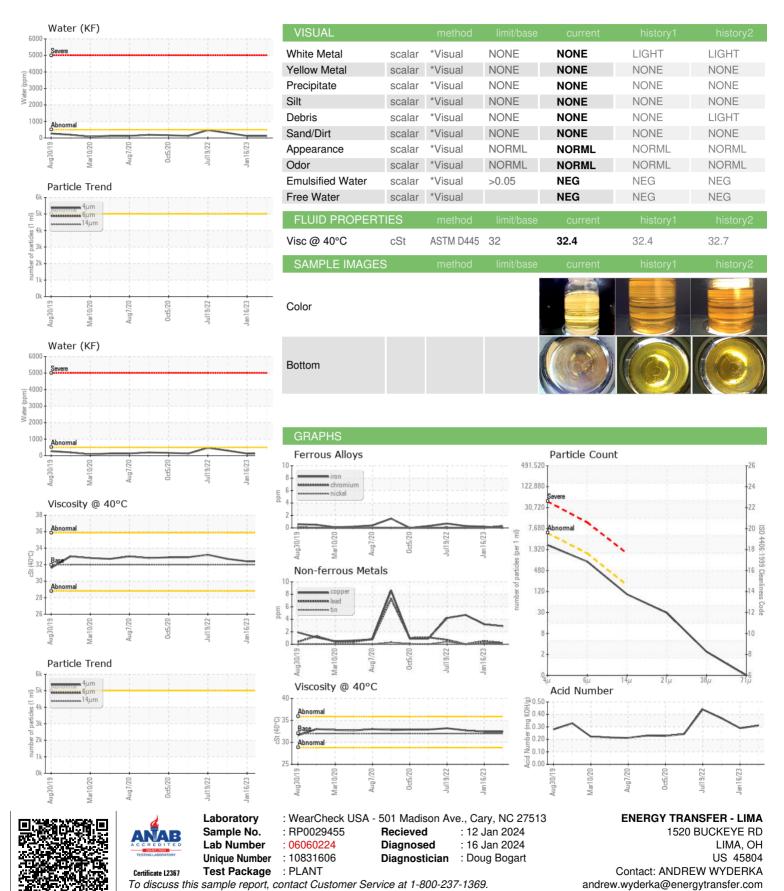
0.29

0.31

0.37



OIL ANALYSIS REPORT



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

F:

T: (419)618-1505