

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



QL6 HARDNESS TESTER

Component

Hydraulic System

MOBIL DTE 25 (50 GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Fluid Condition

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

		Jul2015 Mar2	020 Jui2020 Apr2021	Oct 2021 Jun 2022 Dec 2022 May	2023 Oct202:	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ST43804	ST43872	ST44895
Sample Date		Client Info		30 Oct 2023	11 Sep 2023	19 May 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>40	<1	1	0
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>4	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>60	19	18	17
Tin	ppm	ASTM D5185m	>4	0	0	<1
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		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	2
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		1	2	10
Calcium	ppm	ASTM D5185m		102	103	106
Phosphorus	ppm	ASTM D5185m		466	504	498
Zinc	ppm	ASTM D5185m		708	700	709
Sulfur	ppm	ASTM D5185m		3707	4290	3995
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	2	2
Sodium	ppm	ASTM D5185m		0	1	3
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Water	%	ASTM D6304	>0.05	0.024	0.029	0.032
ppm Water	ppm	ASTM D6304	>500	246.0	293.8	324.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1635	△ 6820	△ 6225
Particles >6µm		ASTM D7647	>1300	333	<u>▲</u> 1340	▲ 1760
Particles >14μm		ASTM D7647	>160	36	46	139
Particles >21µm		ASTM D7647	>40	12	11	28
Particles >38μm		ASTM D7647	>10	0	1	2
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	△ 20/18/13	△ 20/18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A sid Niveshau (ANI)	ma 1/011/-	ACTM DOGGE		0.64	0.76	0.77

Acid Number (AN)

mg KOH/g ASTM D8045

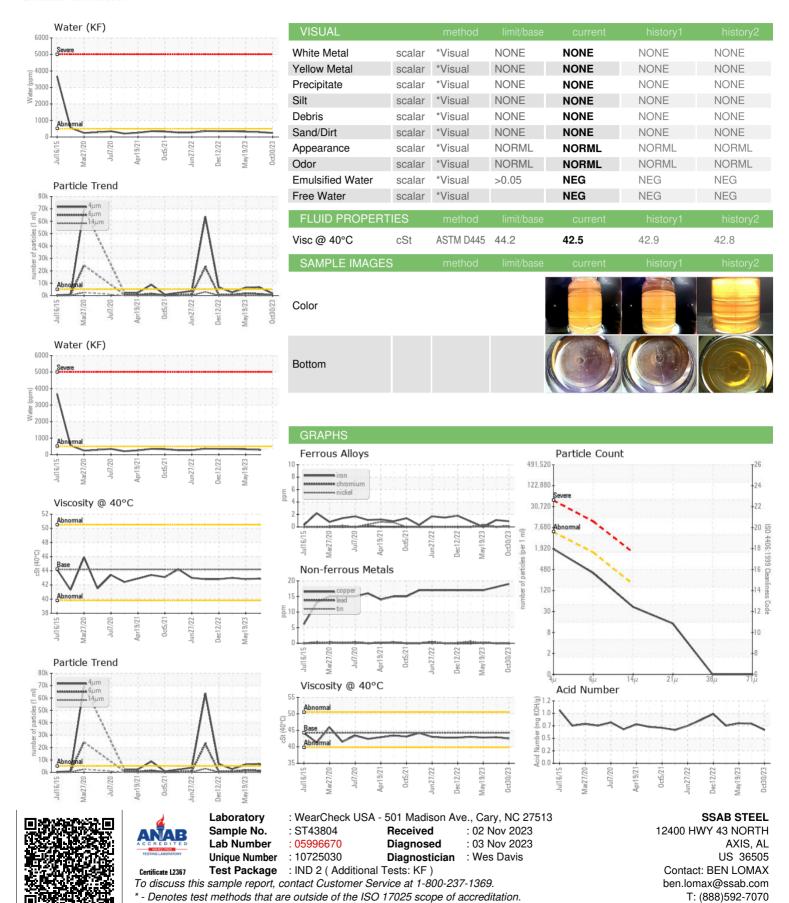
0.76

0.64

0.77



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

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