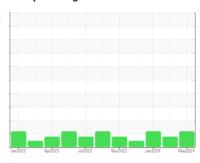


OIL ANALYSIS REPORT

Sample Rating Trend





KD-1 LP NOX PUMP

Component Hydraulic System

MOBIL DELVAC 1 5W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

		Jan2023	Apr2023 Jul2023	Nov2023 Jan2024	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012894	USP0007090	USP0007094
Sample Date		Client Info		30 May 2024	25 Jan 2024	25 Jan 2024
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				ATTENTION	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	3	<1
Chromium	ppm	ASTM D5185m	>20	0	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	2	1
Lead	ppm	ASTM D5185m	>20	<1	1	0
Copper	ppm	ASTM D5185m	>20	0	1	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	291	113	104	134
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	8.0	44	37	40
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	624	894	735	818
Calcium	ppm	ASTM D5185m	2158	1046	791	901
Phosphorus	ppm	ASTM D5185m	1132	1096	955	910
Zinc	ppm	ASTM D5185m	1300	1240	1104	1107
Sulfur	ppm	ASTM D5185m	3616	3436	3031	2828
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	4
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.05	0.041	0.035	0.027
ppm Water	ppm	ASTM D6304	>500	415	356	275
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	6277	<u>^</u> 20543	9044
Particles >6μm		ASTM D7647	>1300	1682	1271	1672
Particles >14μm		ASTM D7647	>160	94	28	83
Particles >21μm		ASTM D7647	>40	28	8	25
Particles >38μm		ASTM D7647	>10	3	0	2
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/18/14	<u>^</u> 22/17/12	20/18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.23	0.83	1.35



OIL ANALYSIS REPORT







Certificate 12367

Report Id: NRGDOV [WUSCAR] 06196715 (Generated: 06/04/2024 06:51:22) Rev: 1

Laboratory Sample No. Lab Number : 06196715 Unique Number : 11058838

: USP0012894 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024 **Tested** : 03 Jun 2024 Diagnosed

: 03 Jun 2024 - Doug Bogart

1280 W NORTH ST DOVER, DE US 19904 Contact: ERNIE JUST

ernie.just@clearwayenergy.com T: (302)678-4353

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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: